2872

Docket No.6430

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Wimperis et al.

GROUP:

2872

SERIAL NO: 10/034,638

EXAMINER:

Unknown

FILED:

12/21/01

FOR:

SYSTEM AND METHOD FOR PRODUCING OPTICAL CIRCUITS

Assistant Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In compliance with 37 C.F.R. §§1.56, 1.97, and 1.98, Applicant submits copies of the documents listed on the attached Form PTO-1449.

The listed documents were recently cited in a corresponding PCT application, and a copy of the International Search Report is being submitted herewith for purposes of convenience.

The Commissioner is authorized to charge Deposit Order Account No. 19-0079 for any fee that is required in connection with this filing.

Respectfully submitted,

William E. Hilton

Registration No. 35,192

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I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Commissioner of Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

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Date

Sheet 1 of 1 FORM PTO-1449 SAMUELS, GAUTHIER & STEVENS 10 1 P
(Rev. 5/92) 225 Franklin Street, Boston, MA 22110 ATTORNEY DOCKET NO. 6430 SERIAL NO.10/034,638 Telephone: (617) 426-9180 PPLICANT: Wimperis et al. GROUP: 2872 AUG 0 6 2003 INFORMATION DISCLOSURE STATEMENT BY APPLICA FILING DATE: 12/21/01 EXAMINER: Unknown U.S. PATENT DOCUMENTS FILING DATE DOCUMENT **EXAMINER** SUBCLASS IF APPROPRIATE NAME CLASS DATE NUMBER INITIAL 08/24/1999 6,276,806 08/21/2001 Cowell AA ABACAD FOREIGN PATENT DOCUMENTS TRANSTATION VES NO DOCUMENT **EXAMINER** SUBCLASS NUMBER DATE COUNTRY CLASS INITIAL YES ΑE WO 01 77626 10/18/2001 PCT 11/22/2001 YES AFWO 01 88604 PCT AG OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER INITIAL Jerman J.H. et al. "Miniature Fabry-Perot Interferometers Micromachined in Silicon for Use in Optical ΑH Fiber WDM Systems" International Conference on Solid State Sensors and Acuators. New York. ÎEEE, US Vol. Conf. 6, 24. June 24, 1991. ΑI

EXAMINER

AJ

DATE CONSIDERED

EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Date: 11/07/2003 |

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AUG-8 2003

Attn. FAGGETTER, Ronald, D. 438 University Avenue Toronto, Ontario MSG 2K8 CANADA SMART & BIGGAR

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT			
Toronto, Ontario M5G 2K8	OPEAN UK NOTIFICATION OF TRANSMITTAL OF OCKET THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION OR Due: Sept 11.2003			
	Date of mailing (day/month/year) 11/07/2003			
Applicant's or agent's file reference 6430(PCT)	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/ IB 02/ 05758	International filing date (day/month/year) 16/12/2002			
GSI LUMONICS, INC.				
	is of the International Application (see Rule 46): ally 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet. Impanying sheet. The Report will be established and that the declaration under anal fee(s) under Rule 40.2, the applicant is notified that: In transmitted to the International Bureau together with the feet and the decision thereon to the designated Offices. Alicant will be notified as soon as a decision is made. In polication will be published by the International Bureau. The of withdrawal of the international application, or of the in Rules 90 bis. 1 and 90 bis. 3, respectively, before the tion. The preliminary examination must be filed if the applicant			
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.				
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Katrin Sommermeyer			

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/IS	ion of Transmittal of International Search Report SA/220) as well as, where applicable, item 5 below.
6430(PCT)	ACTION	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IB 02/05758	16/12/2002	21/12/2001
Applicant		
OCT LUMONICS INC		
GSI LUMONICS, INC.		
This International Search Report has been according to Article 18. A copy is being tra		Authority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by	of a total of6 sheets. a copy of each prior art document cited in	this report.
Basis of the report		
	international search was carried out on the less otherwise indicated under this item.	e basis of the international application in the
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation	n of the international application furnished to this
		he international application, the international search
l	e sequence listing . onal application in written form.	
filed together with the inte	ernational application in computer readable	e form.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
	osequently furnished written sequence listi is filed has been furnished.	ing does not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable fo	orm is identical to the written sequence listing has been
2. X Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,		
the text is approved as su	bmitted by the applicant.	
the text has been establis	hed by this Authority to read as follows:	
1	CIRCUIT AND METHOD FOR ITS	S PRODUCTION
5. With regard to the abstract,		
	hed, according to Rule 38.2(b), by this Au	thority as it appears in Box III. The applicant may, h report, submit comments to this Authority.
6. The figure of the drawings to be publ	ished with the abstract is Figure No.	20
as suggested by the appli	cant.	None of the figures.
because the applicant fail		
because this figure better	characterizes the invention.	

PCT/IB 02/05758

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G02B5/20 G01J3/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 G02B G01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
WO 01 77626 A (DIGITAL OPTICS CORP; FELDMAN MICHAEL R (US); HAN HONGTAO (US);	1-9,12
page 2, paragraph 1 - paragraph 4 page 4, paragraph 1 - paragraph 2 page 9, paragraph 3 figures 1-6	10,11
WO 01 88604 A (CORETEK INC) 22 November 2001 (2001-11-22) page 10, line 18 - line 20	10,11
US 6 276 806 B1 (COWELL RONALD LEOPOLD JOHN ET AL) 21 August 2001 (2001-08-21) cited in the application column 1, line 43 -column 2, line 17	1-4,7-9, 12
	HAM) 18 October 2001 (2001-10-18) page 2, paragraph 1 - paragraph 4 page 4, paragraph 1 - paragraph 2 page 9, paragraph 3 figures 1-6 WO 01 88604 A (CORETEK INC) 22 November 2001 (2001-11-22) page 10, line 18 - line 20 US 6 276 806 B1 (COWELL RONALD LEOPOLD JOHN ET AL) 21 August 2001 (2001-08-21) cited in the application

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the last which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
2 July 2003	11/07/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Jacquin, J

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. χ JERMAN J H ET AL: "MINIATURE FABRY-PEROT 1-4,7-9,INTERFEROMETERS MICROMACHINED IN SILICON 12 FOR USE IN OPTICAL FIBER WDM SYSTEMS" TRANSDUCERS. SAN FRANCISCO, JUNE 24 - 27, 1991, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON SOLID STATE SENSORS ANDACTUATORS, NEW YORK, IEEE, US, vol. CONF. 6, 24 June 1991 (1991-06-24), pages 372-375, XP000608532 ISBN: 0-87942-585-7 page 372, column 2, paragraph 1 paragraph 2 page 374, column 2, paragraph 2 figures 1,6

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1 to 12 relate to an extremely large number of possible apparatuses. For example, two stacked light-transmissive plates would be enough to anticipate claim 1, because the phrase "said optical circuit having been formed, at least in part, by dividing a composite optical structure into a plurality of optical circuits" relates to a step of a method for manufacturing the apparatus rather than clearly defining the apparatus in terms of its technical features, and is therefore not limitative.

Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the apparatuses claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to a wavelength locker having an etalon or a Fabry-Perot cavity.

International application No. PCT/IB 02/05758

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No PCT/IB 02/05758

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0177626	Α	18-10-2001	AU WO	5315401 A 0177626 A2	23-10-2001 18-10-2001
WO 0188604	Α	22-11-2001	EP WO US	1303783 A1 0188604 A1 2002005988 A1	23-04-2003 22-11-2001 17-01-2002
US 6276806	B1	21-08-2001	NONE	-	